

Remarks: See §9.3.2, page 351 till 363

Answers:

$$N^{(1)} = -10 \text{ kN}$$

$$N^{(2)} = +2\sqrt{13} \text{ kN} = +7,21 \text{ kN}$$

$$N^{(3)} = +8 \text{ kN}$$

$$N^{(4)} = +2\sqrt{13} \text{ kN} = +7,21 \text{ kN}$$

$$N^{(5)} = 0$$

Remarks:

First calculate support reactions.

Hinged support: 4 kN (\leftarrow) and 6 kN (\uparrow)

Roller track support: 4 kN (\rightarrow)

Start calculating the forces in the members at one of the supports.

Draw forces polygons on paper with squares. Take as a scale:

1 kN \equiv 0,5 cm